

# **Nonproliferation, Homeland and International Security (NHI) Directorate**

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**May 19, 2006**

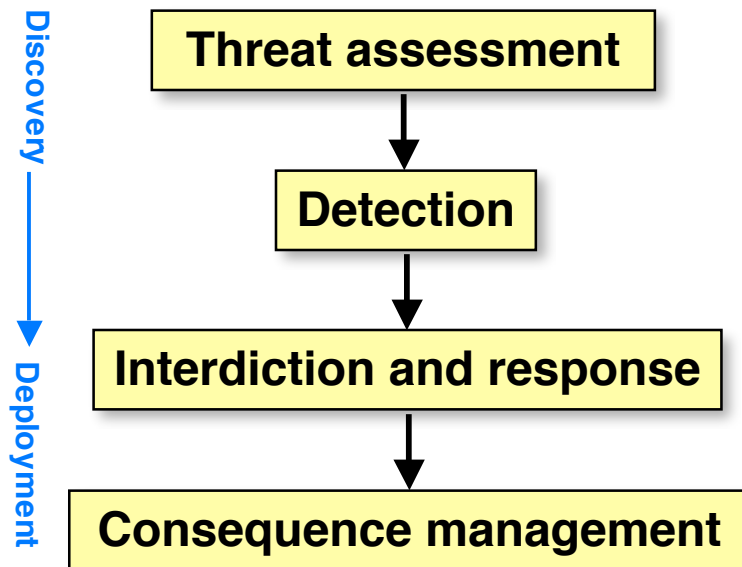
**Lawrence Livermore National Laboratory**

UCRL-PRES-221556

# The Nonproliferation, Homeland and International Security (NHI) directorate has a compelling and enduring mission



- The nation is moving toward a risk-based approach to nonproliferation and counterterrorism
- Our role is to provide end-to-end systems solutions that are intelligence informed, science based, and technology enabled



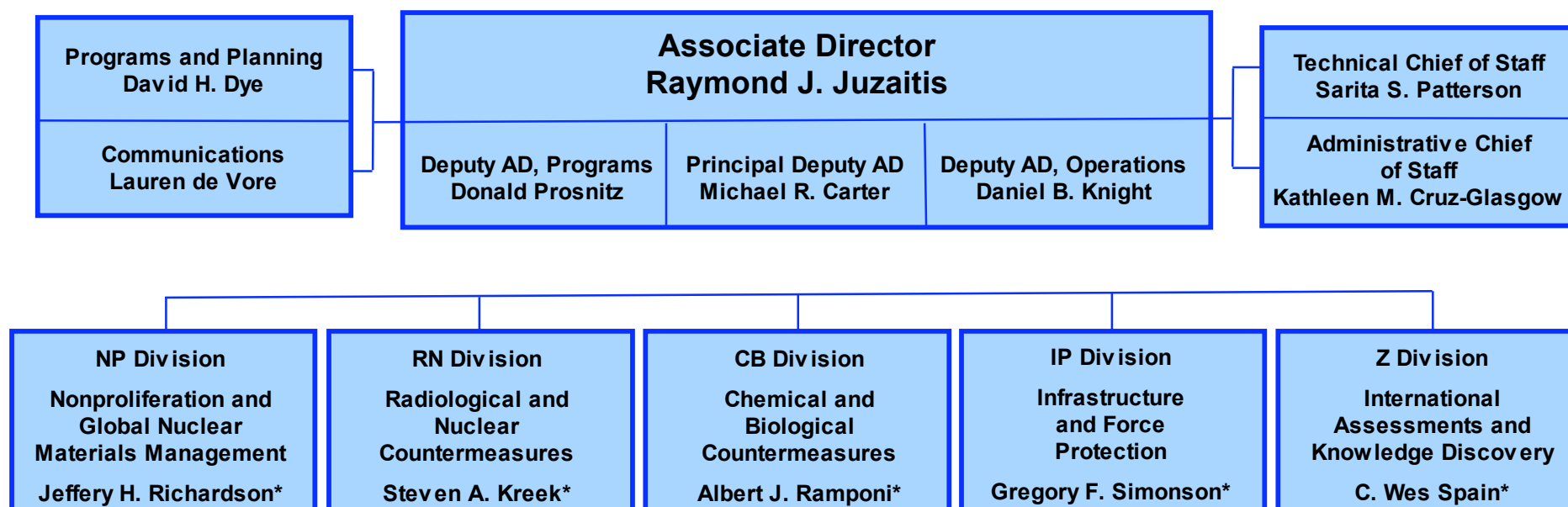
**NHI vision: to be the nation's premier developer of systems solutions to preclude WMD proliferation or terrorist attack**



**“Our strategy is to manage risk in terms of threat, vulnerability, and consequences. We seek to prioritize according to these variables and to fashion a series of preventive and protective steps that increase security at multiple levels.”**  
– DHS Secretary Chertoff



## Organization of the NHI directorate



\*Acting

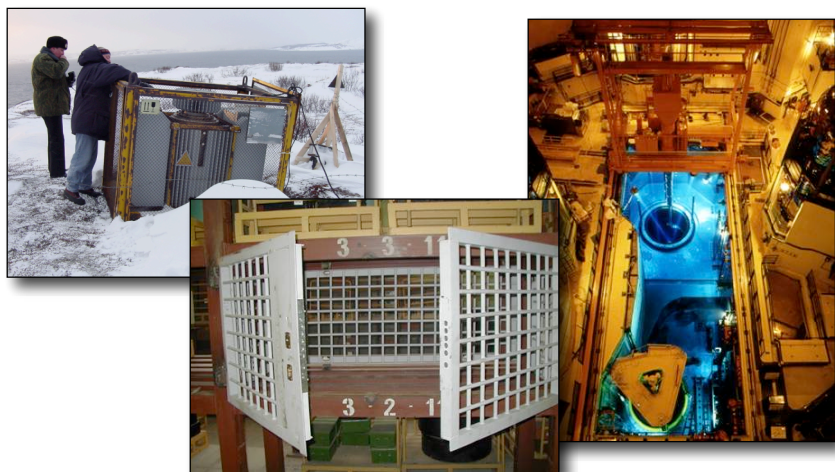
**FY06 estimated funding: \$310 million**

**FY06 estimated staffing: 875 FTEs**

# Our Nonproliferation and Global Nuclear Materials Management Division is a key contributor to the nation's nonproliferation mission



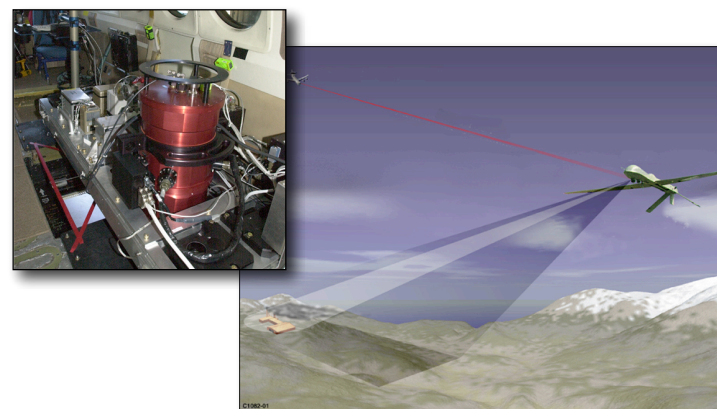
## Global Nuclear Materials Management



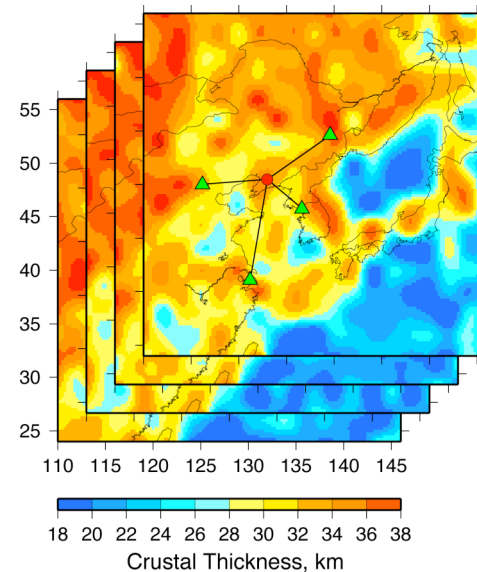
## International Cooperation



## Proliferation Detection



## Nuclear Explosion Monitoring

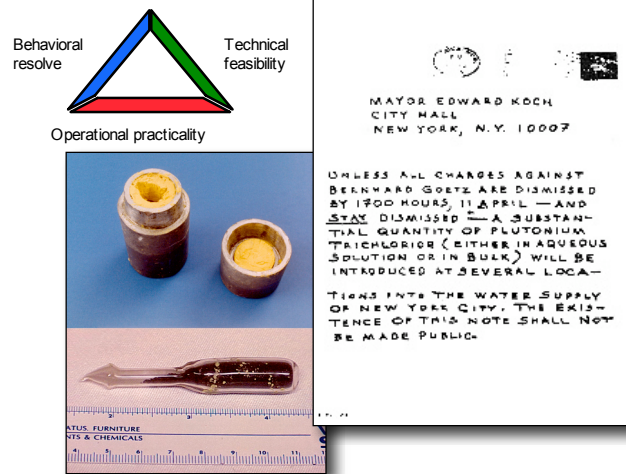




# Our Radiological and Nuclear Countermeasures Division provides end-to-end capabilities to thwart nuclear terrorism



## Nuclear Threat Assessment



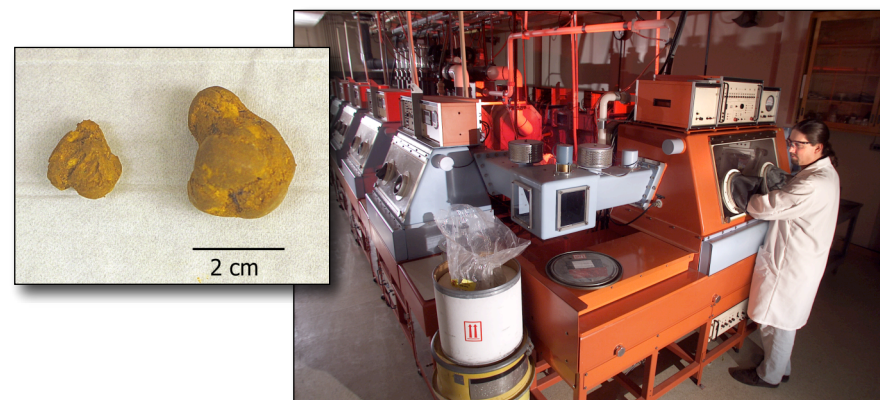
## Radiation Detection



## Nuclear Incident Response



## Forensics and Attribution



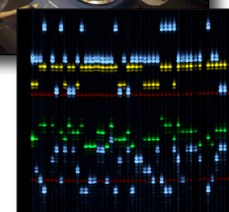
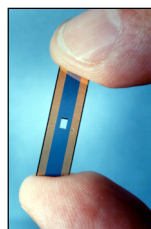
# The Chemical and Biological Countermeasures Division develops technologies to protect against, respond to, and recover from chemical or biological terrorism



## Biodefense Knowledge Center



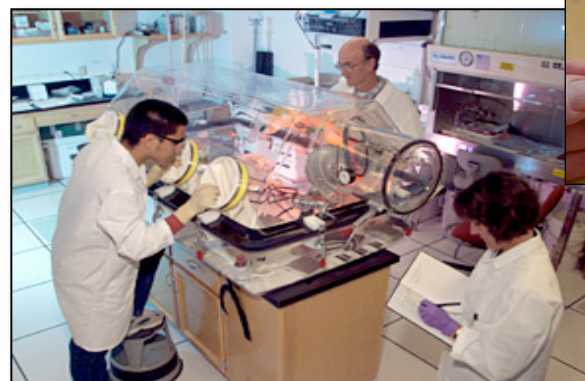
## Biodetection and Biosignatures



## Monitoring and Consequence Management



## Forensic Science Center

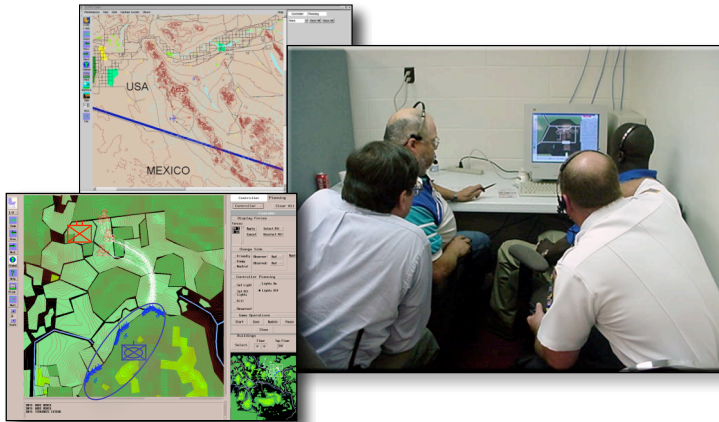




# The Infrastructure and Force Protection Division provides technologies and systems analysis to counter proliferation and protect critical facilities and forces



## Infrastructure and Force Modeling



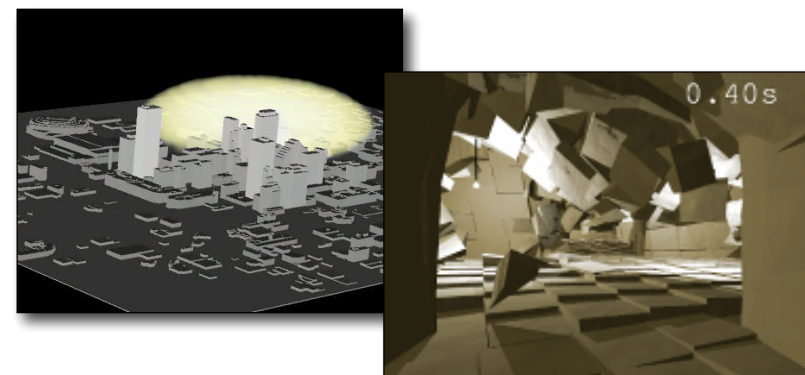
## Site and Facility Assessments



## System Architectures and Testbeds



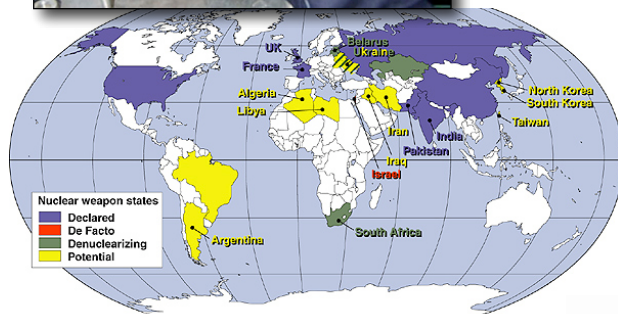
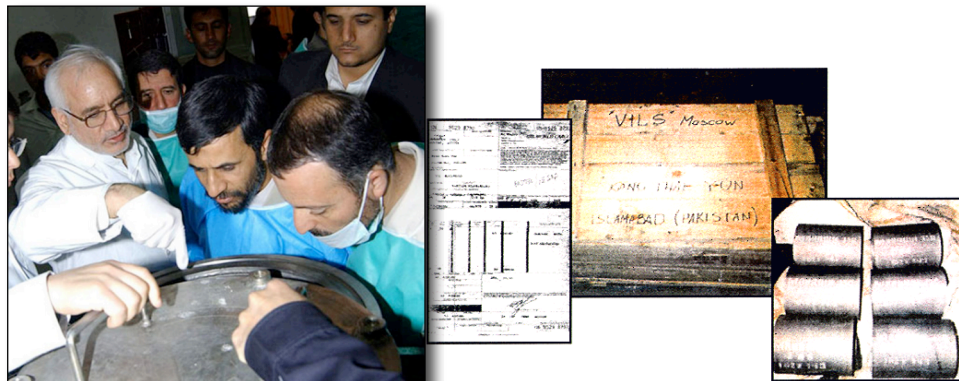
## Missile Defense and Weapons Effects



# Our International Assessments and Knowledge Discovery Division provides technically informed insights into the threats that challenge U.S. security



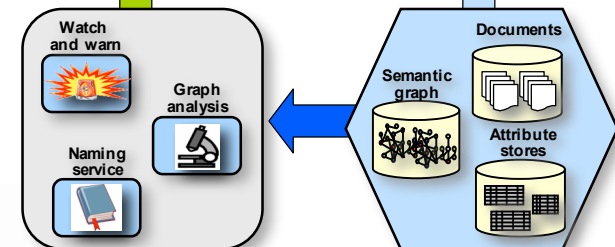
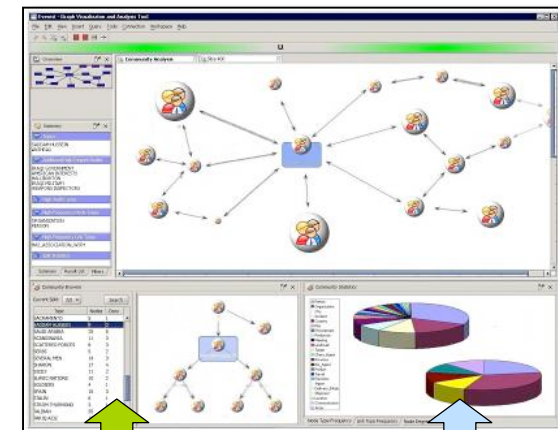
## Integrated WMD Intelligence Analysis



## Security Awareness for Employees

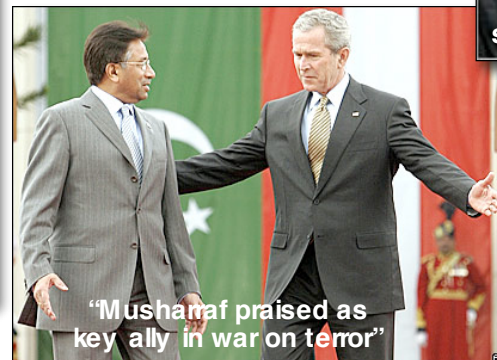


## Information Operations and Analysis Center





# Thinking strategically: NHI will adapt to reflect the world around us and anticipate national security needs



**NHI directly supports the Laboratory's mission of ensuring national security within the global context**